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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/822,309	04/12/2004	Seung-Chcol Lee	678-1306 (P11230)	2605
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DILWORTH & BARRESE, LLP 333 EARLE OVINGTON BLVD. SUITE 702 UNIONDALE, NY 11553			EXAMINER HALIYUR, VENKATESH N	
			ART UNIT 2616	PAPER NUMBER
			MAIL DATE 09/05/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/822,309	<b>Applicant(s)</b> LEE ET AL.	
	<b>Examiner</b> Venkatesh Haliyur	<b>Art Unit</b> 2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 04/12/2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### DETAILED ACTION

1. Claims 1-12 are pending in the application.

#### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Varsa et al [US Pat: 2004/0057446] in view of Matsui [US Pub: 2002/0141740].

Regarding claim 1, Varsa et al in the invention of "Method for Enabling Packet Transfer Delay Compensation in Multimedia Streaming" disclosed a multimedia reproduction apparatus (**multimedia client, item 60 of Fig 1, para 0054-0056**) using output buffering in a mobile communication terminal (**para 0005**), the apparatus comprising: a data parsing section for dividing multimedia data into video data and other data and then parsing the video data and the other data (**para 0060**); a video data processing section for decoding (**media decoder, item 90 of Fig 1**), by the frame, the parsed video data (**para 0060, lines 19-21**), which is transmitted from the data parsing section , and for buffering a

predetermined number of video frames of the decoded data (**post decoder buffer, item 100 of Fig 1**); a media delay output controller for delaying the other data parsed by and transmitted from the data parsing section according to buffering information of the video data processing section (**para 0060, lines 21-26**), for outputting the delayed data, and for generating a synchronizing signal (**signaling message, para 0061,0069-0069**); an audio data processing section for decoding and outputting audio data from among the other data output from the media delay output controller (**para 0060, lines 13-18**); a video data output section for reading and outputting the video data buffered by the video data processing section, by the frame using control data from among the other data output from the media delay output controller (**para 0062**), but fails to disclosed a synchronizing section for synchronizing and outputting the video data output from the video data output section and the audio data output from the audio data processing section according to a synchronizing signal of the media delay output controller.

However, Matsui in the invention of "Data Reproduction Apparatus and Data Reproduction Method" disclosed a synchronizing method for synchronizing RTP data for 3GPP standard (**para 0005 & 0283, para 0321-0325, Fig 16**) with SMIL (**item 212b of Fig 7, para-0159-0164**) to synchronize RTP packets which includes both video and audio data. Therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to use the method of synchronizing video and audio data contained in the RTP packets as

taught by Matsui in the system of Varsa et al to include a synchronizing section for synchronizing and outputting the video data output from the video data output section and the audio data output from the audio data processing section according to a synchronizing signal of the media delay output controller. One is motivated as such in order to decode and synchronize audio and video data for a smooth and jitter free reproduction of the original signals received at the multimedia reproduction apparatus.

Regarding claim 2, Varsa et al disclosed that the video data processing section comprises: a video controller for outputting the parsed video data received from the data parsing section by the frame (**item 110 of Fig 1**); a video decoder (**item 90 of Fig 1**) decoding the video data received by the frame through the video controller, by the frame; and a buffer for buffering the predetermined number of video frames of the decoded video data (**item 100 of Fig 1**), and transmitting a buffering completion signal to the video controller when the predetermined number of video frames have been buffered (**para 0050-0051**), the video controller transmitting buffering information to the media delay output controller according to the buffering completion signal received from the buffer (**para 0060-0061**).

Regarding claims 3-4, Varsa et al disclosed that the synchronizing signal of the media delay output controller is time information and the predetermined number of video frames are buffered (**rate control**), so that the video data is

output by an average decoding time of the predetermined **(client parameters)** and buffered number of video frames **(para 0061,0039)**.

Regarding claims 5-7, Varsa et al disclosed wherein the multimedia data is data of a third Generation Partnership Project (3GPP) type **(para 0003,0005)** and is obvious that the multimedia data is modified for a third Generation Partnership Project 2 (3GPP2) and type Korea 3 Generation (K3G) type standard.

Regarding claim 8, Varsa et al disclosed that the multimedia data is data of a Real-time Transport Protocol (RTP) type **(para 0057)**.

Regarding claim 9, Varsa et al disclosed a control method using output buffering to reproduce multimedia data in a mobile communication terminal **(client terminal)**, the control method comprising the steps of: (1) receiving the multimedia data, dividing multimedia data into video data and other data, and parsing the video data and the other data, respectively, in the mobile communication terminal **(para 0060)**; (2) storing video frame start addresses of the video data parsed in step (1) **(para 0021,0032-0035)**, decoding the video data by the frame, and buffering a predetermined number of video frames **(size of the buffer, para 0025-0028)**; (3) outputting the other data parsed in step (1) after delaying the other data as long as the predetermined number of video frames buffered in step (2) **(para 0036-0039)**; (4) decoding and outputting audio data by the frame in which the audio data is included in the data output in step (3), and the outputting video frames buffered in step (2) according to control

information included in the data output in step (3) (**para 0060, lines 13-26, para 0061**); but fails to disclose step (5) for synchronizing and outputting the video frames and audio frames output in step (4) according to time information.

However, Matsui disclosed a synchronizing method for synchronizing RTP data for 3GPP standard (**para 0005 & 0283, para 0321-0325, Fig 16**) with SMIL (**item 212b of Fig 7, para-0159-0164**) to synchronize RTP packets which includes both video and audio data. Therefore it would have been obvious for one of ordinary skill in the art at the time the invention was made to use the method of synchronizing video and audio data contained in the RTP packets as taught by Matsui in the system of Versa et al to include a synchronizing section for synchronizing and outputting the video data output from the video data output section and the audio data output from the audio data processing section according to a synchronizing signal of the media delay output controller. One is motivated as such in order to decode and synchronize audio and video data for a smooth and jitter free reproduction of the original signals received at the multimedia reproduction apparatus.

Regarding claim 10, Versa et al disclosed that control method further comprising a step (6) of generating a buffering completion control signal when the predetermined number of video frames have been buffered in step (2) (**para 0050-0051,0060**), transmitting the buffering completion control signal, and controlling the delaying process of step (3) to be performed (**para 0061**).

Regarding claim 11, Versa et al disclosed that the predetermined number

of video frames are buffered and output, so that the video frames are output by an average decoding time of the predetermined and buffered number of video frames (**para 0061,0039**).

Regarding claim 12, The control method as claimed in claim 9, wherein, in step (5), when the time information of a video frame and an audio frame output in step (4) does not correspond to each other (**para 0069**), a frame having prior time information waits for the other frame, from among the video frame and the audio frame, thereby performing the synchronization (**para 0062,0070**).

### ***Conclusion***

4. Any inquiry concerning this communication or earlier communications should be directed to the attention to Venkatesh Haliyur whose phone number is 571-272-8616. The examiner can normally be reached on Monday-Friday from 9:00AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached @ (571)-272-7884. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (571)-272-2600 or fax to 571-273-8300.
5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for



Art Unit: 2616

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR

only. For more information about the PAIR system, see [http://pair-](http://pair-direct.uspto.gov)

[direct.uspto.gov](http://pair-direct.uspto.gov). Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

Venkatesh Haliyur

Patent Examiner

WH 08/28/07

EDAN D. ORGAD  
SUPERVISORY PATENT EXAMINER

Edan Orgad 8/31/07